

## EAST Search History

| Ref # | Hits | Search Query   | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|------|--|------------------------------|------------------|---------|------------------|
| L3    | 1    | "6507790".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:05 |
| L4    | 1    | "6358186".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:05 |
| L5    | 1    | "6308138".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:05 |
| L6    | 1    | "6272411".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:05 |
| L7    | 1    | "6260004".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:05 |
| L8    | 1    | "6242733".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:06 |
| L9    | 1    | "6202038".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:06 |
| L10   | 1    | "6193032".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:06 |
| L11   | 1    | "6138078".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:06 |
| L12   | 1    | "6113515".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:08 |
| L13   | 1    | "6089106".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:08 |
| L14   | 1    | "6035734".PN.  | USPAT;<br>USOCR              | OR               | OFF     | 2006/12/28 15:22 |
| L15   | 10   | ((("6260004") or ("6434512") or ("5523701") or ("6330525") or ("6196057") or ("6324899") or ("6295510") or ("6023961") or ("6546785") or ("6286363") or ("200153268") or ("5523701"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/12/28 16:19 |
| L16   | 134  | 702/177.ccls.  | US-PGPUB;<br>USPAT           | OR               | OFF     | 2006/12/28 16:19 |
| L17   | 2341 | 702/182-183.ccls.  | US-PGPUB;<br>USPAT           | OR               | OFF     | 2006/12/28 16:19 |
| L18   | 326  | 702/33.ccls.   | US-PGPUB;<br>USPAT           | OR               | OFF     | 2006/12/28 16:20 |
| L19   | 671  | 324/772.ccls.  | US-PGPUB;<br>USPAT           | OR               | OFF     | 2006/12/28 16:20 |
| L20   | 79   | 324/635.ccls.  | US-PGPUB;<br>USPAT           | OR               | OFF     | 2006/12/28 16:20 |
| L21   | 143  | 324/683.ccls.  | US-PGPUB;<br>USPAT           | OR               | OFF     | 2006/12/28 16:20 |

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|     |     |  |                    |    |     |                  |
|-----|-----|--|--------------------|----|-----|------------------|
| L22 | 598 | 73/660.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/12/28 16:20 |
| L23 | 146 | 73/570.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/12/28 16:20 |
| L24 | 247 | 73/862.08.ccls.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/12/28 16:20 |
| L25 | 280 | 73/649.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/12/28 16:21 |
| L26 | 0   | (16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25) and diagnostic and predict\$3 and rotating and load\$3 and unload\$3 and sensor and vibration and sampling and time near1 interval and display\$3 and magnitude and maintenance and inspection.clm.         | USPAT              | OR | ON  | 2006/12/28 16:24 |
| S1  | 15  | ((("6260004") or ("6434512") or ("5523701") or ("6330525") or ("6196057") or ("6324899") or ("6295510") or ("6023961") or ("6546785") or ("6286363") or ("2004153268") or ("4758964") or ("4980844") or ("5094107") or ("5523701") or ("5602757") or ("5875420"))).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/14 15:02 |
| S2  | 0   | S1 and diagnostic and predict\$3 and rotat\$3 and load\$3 and unload\$3 and sensor and vibrat\$3 and sampl\$3 and display  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 17:25 |
| S3  | 10  | diagnostic and predict\$3 and rotat\$3 near1 machine and load\$3 and unload\$3 and sensor and vibrat\$3 and sampl\$3 and display   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 17:26 |
| S4  | 0   | S3 and velometer and accelerometer   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 17:26 |
| S5  | 2   | S3 and accelerometer   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 17:26 |
| S6  | 1   | "5214715".PN.  | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:49 |
| S7  | 1   | "5210704".PN.  | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:50 |
| S8  | 1   | "5157738".PN.  | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:50 |
| S9  | 1   | "5142590".PN.  | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:50 |
| S10 | 1   | "5040214".PN.  | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:50 |

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|     |     |                               |                    |    |     |                  |
|-----|-----|-------------------------------|--------------------|----|-----|------------------|
| S11 | 1   | "4914708".PN.                 | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:50 |
| S12 | 1   | "5050108".PN.                 | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:52 |
| S13 | 1   | "5027268".PN.                 | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:52 |
| S14 | 1   | "5025392".PN.                 | USPAT;<br>USOCR    | OR | ON  | 2006/09/13 20:52 |
| S15 | 1   | ("5210704").PN.               | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 20:53 |
| S16 | 1   | S15 and rotat\$3 and sampling | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:53 |
| S17 | 1   | S16 and predict\$3            | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:54 |
| S18 | 1   | S17 and sensor                | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:54 |
| S19 | 1   | S18 and vibration             | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:54 |
| S20 | 1   | S19 and display               | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:54 |
| S21 | 1   | S20 and load                  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:55 |
| S22 | 0   | S21 and unload                | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:54 |
| S23 | 0   | S21 and accelerometer         | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:55 |
| S24 | 0   | shad-khamini.xa.              | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:55 |
| S25 | 0   | shah-khamini.xa.              | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:56 |
| S26 | 0   | shah-khamini.pa.              | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:57 |
| S27 | 0   | shah-kamini.pa.               | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:57 |
| S28 | 0   | kamini-shah.pa.               | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:57 |
| S29 | 8   | kamini-shah.xa.               | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 21:07 |
| S30 | 0   | kamini-shah.pa.               | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:58 |
| S31 | 490 | vo-hien.xa.                   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:58 |
| S32 | 69  | S31 and rotating              | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:59 |

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|     |      |  |                    |    |     |                  |
|-----|------|--|--------------------|----|-----|------------------|
| S33 | 11   | S32 and predict\$3   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 20:59 |
| S34 | 76   | shah-kamini.xa.  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 21:08 |
| S35 | 17   | S34 and rotat\$3   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 21:08 |
| S36 | 1    | S34 and rotat\$3 and vibration   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 21:08 |
| S37 | 0    | shah-kamini.pa.  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/13 21:08 |
| S38 | 6836 | rotating near1 machine   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:52 |
| S39 | 324  | S38 and predict\$3   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:52 |
| S40 | 1463 | S38 and vibration  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:52 |
| S41 | 1775 | S38 and sensor   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:53 |
| S42 | 159  | S38 and load\$2 and unload\$2  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:53 |
| S43 | 351  | S38 and sampling   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:53 |
| S44 | 1    | S39 and S40 and S41 and S42 and S43  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 14:54 |
| S45 | 0    | "2004153268"   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:02 |
| S46 | 1    | "20040153268"  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:08 |
| S47 | 17   | "5922963"  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:08 |
| S48 | 11   | "5287837"  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:08 |
| S49 | 9    | "4528852"  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:08 |
| S50 | 2    | "6233212"  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:09 |
| S51 | 8    | ((("5922963") or ("5287837") or ("4528852") or ("6233212") or ("4958125") or ("6321602") or ("4194129") or ("6062071"))).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/14 15:10 |
| S52 | 7    | S51 and vibration  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:10 |
| S53 | 7    | S51 and sensor   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:10 |

## EAST Search History

|     |   |   |                    |    |     |                  |
|-----|---|---|--------------------|----|-----|------------------|
| S54 | 3 | S51 and predict\$3  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:10 |
| S55 | 0 | S51 and load\$2 and unload\$2.  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:11 |
| S56 | 2 | S52 and S53 and S54   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/14 15:11 |
| S57 | 8 | ((("5922963") or ("5287837") or<br>("4528852") or ("6233212") or<br>("4958125") or ("6321602") or<br>("4194129") or ("6062071"))).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/18 03:34 |
| S58 | 7 | S57 and sensor  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 03:34 |
| S59 | 1 | ("5210704").PN.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/18 03:34 |
| S60 | 1 | S59 and rotat\$3 and sampling   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 03:34 |
| S61 | 1 | S60 and predict\$3  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 04:43 |
| S62 | 1 | ("5210704").PN.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/18 04:50 |
| S63 | 1 | S62 and vibration and sensor  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 04:43 |
| S64 | 1 | S62 and sampl\$3  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:07 |
| S65 | 1 | S62 and display\$3  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:15 |
| S66 | 0 | S62 and accelerometer   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:15 |
| S67 | 0 | S62 and velometer   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:15 |
| S68 | 0 | S62 and current and voltage   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:16 |
| S69 | 0 | S62 and spindle   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:17 |
| S70 | 1 | S62 and frequency   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:17 |
| S71 | 1 | S62 and vibration near1 frequency   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:19 |
| S72 | 0 | S62 and hz  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:19 |
| S73 | 1 | S62 and revolution  | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:20 |
| S74 | 0 | S62 and S66   | US-PGPUB;<br>USPAT | OR | ON  | 2006/09/18 05:20 |

## EAST Search History

|     |    |  |                              |    |     |                  |
|-----|----|--|------------------------------|----|-----|------------------|
| S75 | 1  | S62 and second   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/09/18 05:58 |
| S76 | 1  | rotating near1 equipment and<br>velometer and accelerometer and<br>current and voltage and<br>piezoelectric and roll   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/09/18 05:59 |
| S77 | 1  | rotating near1 equipment and<br>velometer and accelerometer and<br>current and voltage and<br>piezoelectric  | US-PGPUB;<br>USPAT           | OR | ON  | 2006/09/18 06:00 |
| S78 | 16 | rotating near1 equipment and<br>accelerometer and current and<br>voltage and piezoelectric   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/09/18 05:59 |
| S79 | 16 | rotating near1 equipment and<br>accelerometer and current and<br>voltage and piezoelectric   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/12/28 11:27 |
| S80 | 8  | S79 and revolution   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/09/18 06:23 |
| S81 | 5  | S80 and hz   | US-PGPUB;<br>USPAT           | OR | ON  | 2006/09/18 06:23 |
| S82 | 2  | ((("5210704") or ("6694285"))).PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/12/28 11:55 |
| S83 | 50 | ((("4893483") or ("5031490") or<br>("5392269") or ("5775628") or<br>("6010284") or ("5904457") or<br>("20060178854") or ("4953368") or<br>("4597155") or ("4828212") or<br>("5848554") or ("4110897") or<br>("4419807") or ("4431140") or<br>("4464891") or ("4479745") or<br>("4511304") or ("4767299") or<br>("4801243") or ("4860987") or<br>("4899530") or ("4949097") or<br>("5025690") or ("5289983") or<br>("5769205") or ("5839870") or<br>("5881960") or ("6145777") or<br>("4305551") or ("4586797") or<br>("4971339") or ("5437238") or<br>("5438920") or ("5522332") or<br>("5562060") or ("5657711") or<br>("5979817") or ("6290423") or<br>("7124979") or ("20050127231") or<br>("4294064") or ("4405116") or<br>("4544134") or ("4783924") or<br>("4787280") or ("4856153") or<br>("5052862") or ("5205190") or<br>("5239886") or ("5547291"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/12/28 11:56 |
| S84 | 10 | S83 and load and unload  | US-PGPUB;<br>USPAT           | OR | OFF | 2006/12/28 11:56 |